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(54) Title: MEANS AND METHODS FOR MONITORING NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITOR ANTIRETRO-VIRAL THERAPY AND GUIDING THERAPEUTIC DECISIONS IN THE TREATMENT OF HIV/AIDS

(57) Abstract

This invention relates to antiviral drug susceptibility and resistance tests to be used in identifying effective drug regimens for the treatment of human immunodeficiency virus (HIV) infection and acquired immunodeficiency syndrome (AIDS) and further relates to the means and methods of monitoring the clinical progression of HIV infection and its response to antiretroviral therapy, particularly nucleoside reverse transcriptase inhibitor therapy using phenotypic susceptibility assays or genotypic assays.



INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/14486

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Electronic data bases consulted (Name of data base and where practicable terms used):

APS, DIALOG, BIOSIS, DISSERTATION ABSTRACTS ONLINE, EMBASE, MEDLINE, AIDSLINE, human immunodeficiency virus or HIV, antiviral, nucleoside, reverse transcriptase, inhibitor, antiretroviral, mutation, codon, DAT

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INTERNATIONAL SEARCH REPORT

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110.01	435/5, 6, 173.3; 536/23.1, 23.72; 514/44 International Patent Classification (IPC) or to both n		and IPC	
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	ocumentation searched (classification system followed	by classification sys	nbols)	
U.S. : 4	135/5, 6, 173.3; 536/23.1, 23.72; 514/44			
Documentati NONE	on searched other than minimum documentation to the	extent that such docu	ments are included	in the fields searched
Electronic d	ata base consulted during the international search (na	me of data base and,	where practicable,	search terms used)
	Extra Sheet.			
c. Doc	UMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relev	ant passages	Relevant to claim No.
Y	KREBS et al. Single-Step Kinetics of HIV-1 Reverse Transcriptase Mutants Responsible for Virus Resistance to Nucleoside Inhibitors Zidovudine and 3-TC. Biochemistry. June 1997, Vol. 36, No. 33, pages 10292-10300, especially page 10299, column 1, second paragraph.			1-31
Y	KLEIM et al. In Vitro Selection for Dir the HIV-1 Reverse Transcriptase Usi Pressure of the Nonnucleoside Reverse 097. Virology. February 1997, Vol. especially Abstract and Table 2.	ng High and L Transcriptase i	ow Selective nhibitor HBY	1-31
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X Furth	ner documents are listed in the continuation of Box C	·	ent family annex.	
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th	e priority date claimed actual completion of the international search	Date of mailing of	the international se	arch report
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	citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
ategory*	Citation of document, with indication, whole appropriate, as a second citation of document, with indication, whole appropriate, as a second citation of document, with indication, whole appropriate, as a second citation of document, with indication, where appropriate, as a second citation of document, with indication, where appropriate, as a second citation of document, which is a second citation of document, which is a second citation of document, and the second citation of document, and	
	AHLUWALIA et al. 2', 3' -didehydro-3'-deoxythymidine: Regulation of its Metabolic Activation by Modulators of Thymidine-5'-triphosphate Biosynthesis. Molecular Pharmacology. March 1996, Vol. 50, No. 1, pages 160-165, especially Abstract and Result.	1-31
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Figure 12

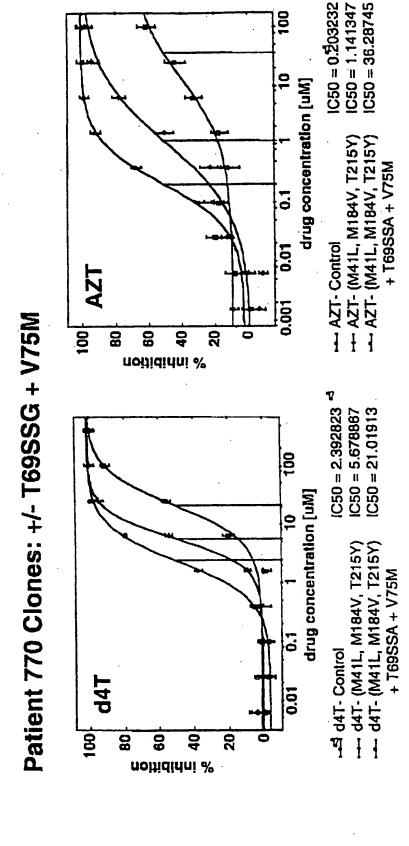


Figure 13

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* inhibition 60 40 ddl

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MALLANG TYPES SEA HILL SEVER TO LIGHT

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* whibition 60

* Inhibition

d4T

0.01

ddC

